

their long narrow galleries, while the teeth assist in backward motion in them. The mature larvæ obtained in May differ but slightly from these, except that they are then .7 of an inch long and the pink stripes and marks are brownish. The fourth, fifth and sixth segments are smaller than those preceding or following them. They are quite active, moving up and down their burrows rapidly.

By the middle of May the caterpillar has worked its way back to the place of entrance in autumn, enlarging its way to accommodate its increased size, and after loosely stopping the upper part with a few chips, retires and changes to the pupa. It is then .6 of an inch in length, slender, cylindrical. Color white, except the oblique disc or plate terminating the head, which is made dark by many teeth-like elevations on its surface. The abdominal segments are clothed with hairs, and the last four segments have each a transverse row of teeth on the dorsal part, reminding one of a Tortrix or Cossus pupa. The conical tip of the abdomen has many teeth; these teeth, together with the roughness upon the head, enable the pupa to worm its way up and down the burrow with readiness. When removed from the stem to the table it travels about, rolling and worming its way very much as do the pupæ of certain stem-boring beetles. The wing and limb covers are free for a considerable distance from their tips.

The moth appears from the 1st to the 15th of July; the largest measured expanded 1.2 inches.

This moth has a peculiarly interesting history, increasing much the known diversity of form and habits of the preparatory forms of the Pterophoridae.

Concerning the smaller one which feeds upon the leaves, I will say that the larva and its habits are too imperfectly known to me to detail; that the pupa is found during the first days of July fastened to the under side of the leaf parallel to the mid-rib. Its appearance is quite like that of the pupa of the best known forms of the group.

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#### ENTOMOLOGICAL NOTES.

BY A. S. MCBRIDE, FREELAND, DE KALB CO., ILL.

I find *Dorytomus mucidus* Say running on and flying about Cottonwood trees early in April and again in August. In October it is found under dead bark of trees, in winter quarters. Common.

*Eros coccinatus* Say is found in April in the Cotton wood under logs in the woods.

*Sphenophorus 13-punctatus* H., common on Rag-weed (*Ambrosia bidentata*) in August. Common.

I have taken *Eburia quadrigeminata* Say in the act of coming out of Hickory trees in July; they fly in the dusk of evening, and are quite common.

*Dinoderus punctatus* is found early in the spring on fences and buildings near the wood-pile, and I have taken them in great numbers in the stumps of trees that had been grubbed out; sometimes the small roots would be almost entirely reduced to powder.

*Bostrichus bicornis* Web. is found under the dead bark of White Oak posts in August. I think the larva bores in the wood.

*Plectrodera scalator* Fab. is found on small swamp Willows in August.

*Toxotus cylindricollis* Say is found on wild flowers in July; not common.

*Epicauta convolvuli* Mels. is found on May-weed (*Maruta cotula*) in August, but not common.

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#### NATURAL HISTORY SOCIETY OF ILLINOIS.

The Illinois State Natural History Society met at the Opera House, in Bloomington, Tuesday evening, Feb'y 24th. After an address of welcome from the citizens of Bloomington, and an address by Prof. A. H. Worthen, of Springfield, Ill., the retiring President, the original officers were re-elected. Various papers and lectures were read before the Society, which adjourned on Thursday, the 26th, having provided for a summer meeting on the grounds of the Lake George Sportsmen's Association, near Chicago, in July. This Society was organized at the Palmer House, in Chicago, in January, 1879, and the Bloomington was its third semi-annual meeting, but it still lacks somewhat in effectiveness for want of the full support that should be accorded by the naturalists of Illinois, its aim being to embrace in its membership every person in the State of Illinois interested in natural science. The officers elected at Bloomington were: A. H. Worthen, Springfield, President; T. J. Burrell, Champaign, Vice-President; S. A. Forbes, Normal, Secretary, and H. N. Hibbard, Chicago, Treasurer.